BEA

We open up New Horizons

DK-12

Presence Detector for Automatic Doors

The DK-12 Presence Sensing System offers safety and reliability

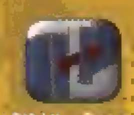
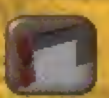
Features:

- Advanced active infrared detection applicable to industrial and pedestrian automatic doors.
- Six selectable patterns to accommodate a left or right hand and single door, or a pair of doors of any size.
- Immune to electrical and radio interference.
- Automatic pattern adjustment changed just by pushing a button.
- Anti-vandalism, sturdy black aluminum housing
- Insensitive to color variation.
- Three adjustable angles.
- Ideal construction to activate automatic doors in small vestibule (5' to 6') when energy conservation is a concern.
- Adjustable learn mode to accommodate for background changes (30 sec. to 25 min.)

One DK-12 Active Infrared Sensor provides a 6' x 4' protection if a person or forklift stops in its pattern.

The DK-12 protects the swing path of the door as well as the guide rails.








Installation

The DK-12 can be ceiling or wall mounted, with adjustable mounting angles. The DK-12's activation zone will cover to the floor when the sensor is mounted 10' high. The 10' high activation zone will be shifted higher as the sensor is mounted higher.

The DK-12 is mounted in the center of the door opening and easily adapts to its surroundings. By a push of a button, the DK-12 scans and remembers the environment.

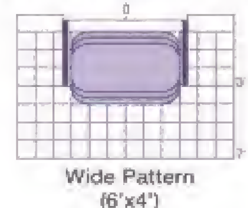
The maximum presence detection (learn mode) can be adjusted from 30 sec. to 25 min. with a potentiometer.

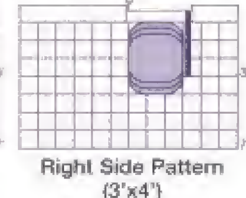
When exposed to inclement weather, BEA recommends the DK-12 be installed with the weather protection hood (WHU).

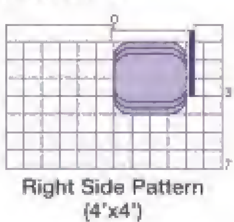
B.E.A. Inc.
300 South Main Street
Pittsburgh, PA 15215 USA
Phone: 412-782-5150
Fax: 412-782-5154
Website: www.beainc.com*
E-mail: sales@beainc.com
Toll Free Numbers:
US & Canada: 1-800-523-2462
PST: 1-877-BEAWEST (232-9378)
Mexico: 001-800-711-1398

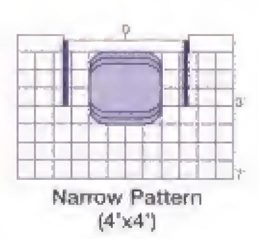
* Detailed architectural specifications are available on BEA's website and in our architectural binder.

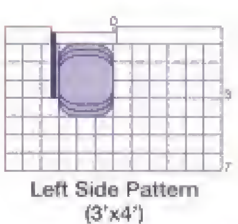
DK-12 Detection Zone 6 Switchable Patterns*

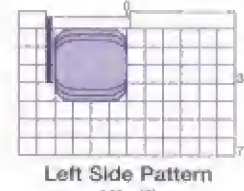

Wide Pattern (6'x4')


Right Side Pattern (3'x4')


Right Side Pattern (4'x4')


Narrow Pattern (4'x4')


Left Side Pattern (3'x4')


Left Side Pattern (4'x4')

Single dip switch pattern selection allows the detector to adjust easily to any particular installation.

DK-12 and SuperScan Together Adjust for Maximum Safety

1. Approach



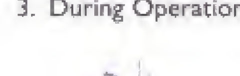
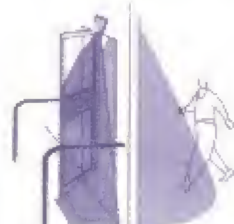
The Compact detects motion and signals the door to open.

2. Protection Behind The Door



The DK-12 mounted on the swing side of the door, detects the presence of a child, even if immobile. The DK-12 prevents the door from opening.

3. During Operation

The movement of the door triggers the DK-12. The LO-21 blocks the transfer of the signal and the door continues to open.

4. Coming From The Wrong Direction



The SBK-111 beam detects the person and transmits the information to the LO-21, which prevents the door from reopening.

5. Protection With The Door Fully Open



The DK-12 detects the child and prevents the door from closing.

NOTE: If the door already has the DK-12 installed, or any other type of sensor, you can still enhance the safety of your door by adding the SuperScan system. The SuperScan is a door mounted sensor that will provide safety at all times, even when the door is in motion. See the technical sheet or catalog for details.

TECHNICAL SPECIFICATIONS

Mounting Height	10' for detection to the floor
Detection Zone Full pattern	 4' deep to 6' wide
Mounting Angle	20° – 26° – 32°
Power Supply	12V to 24V AC/DC
Frequency	50 to 60 Hz
Consumption	100 mA min., 150 mA max.
Output Max voltage at contacts	 60 V DC/ 125 V AC
Max current at contacts	1 A (RESISTOR)
Max power supply	30 W (DC), 120 VA (AC)
Relay hold time	1 to 10 seconds
Weight	1 lb., 11 oz.
Temperature range	-30° F to 131° F
Immunity	Immune to electrical and radio frequency interference
Material	Aluminum and ABS plastic
Housing Color	Black (ready to paint)

- Unique and automatic push button adjustment for easy installation
- Adjustment of maximum presence detection from 30 seconds to 25 minutes with potentiometer
- Insensitive to ambient light
- Immune to electrical and radio frequency interference



In combination with two other detectors (motion detector, safety beam) and a special logic control (LO-21), the DK-12 offers a complete detection system. Call BEA for details.